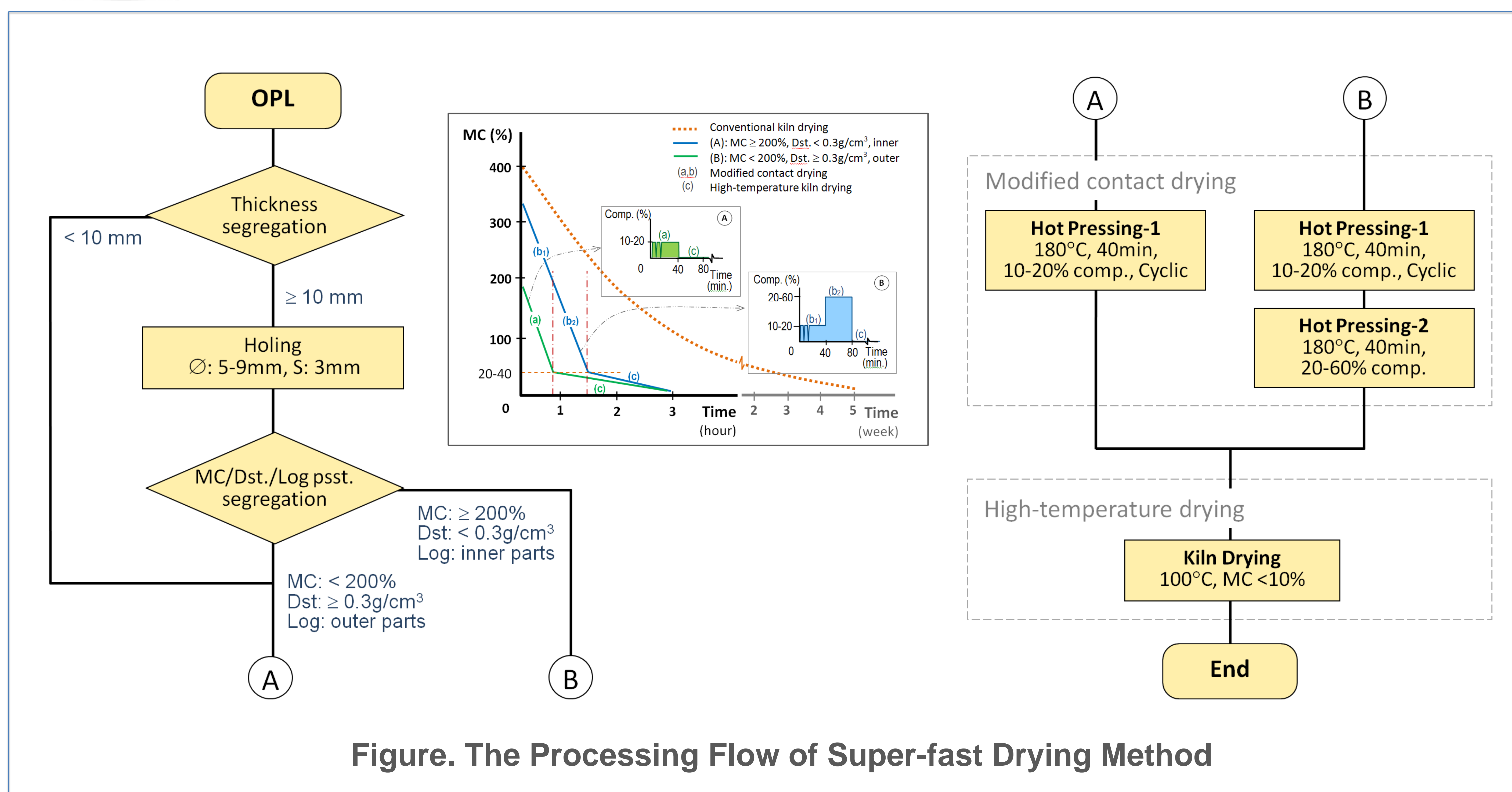


# Super-Fast Drying Method for Oil Palm Lumber

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## INTRODUCTION OF TECHNOLOGY

The drying has been the most significant challenge in utilization of OPL (very long time, severe defects, applicable to only the outer part of trunk, and very costly) due to the high MC and unique structure of the material. For any applications, however, OPL must be dried first before it can be utilized. A new, fast, and efficient drying method was devised and patented that make the process become much more attractive to the industry.

## INVENTION

The method is unique, involving hole-forming and 2-step drying: hot plates drying to a certain MC, and high-temperature kiln drying to a target MC. All variables are dependent on the thickness and initial MC/density/portion of OPL (Figure).

## ADVANTAGES

- Very fast drying process (3hrs).
- Minimum drying defects (<5%).
- Improved prop. (TS, WA, SR, strength, Hs)
- Applicable to outer and middle parts of trunk.

## MARKET POTENTIAL

### Consumer/End User

- Local and global wood research centers.

### Industry

- Local and global wood industries.
- Local and global oil palm planters.



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